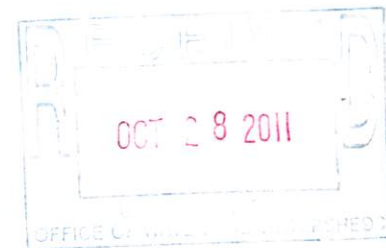




**United States Department of the Interior
Fish and Wildlife Service
Leavenworth National Fish Hatchery Complex
Entiat, Leavenworth and Winthrop Salmon Hatcheries
12790 Fish Hatchery Road
Leavenworth, WA 98826
Phone: (509) 548-7641
Fax: (509) 548-3401**

October 24, 2011

Lindsay Guzzo
Environmental Engineer
Environmental Protection Agency
Office of Water and Watersheds
1200 Sixth Ave
NPDES Permits Unit OWW-130
Seattle, WA 98101
Phone: (206) 553-0268
Fax: (206) 553-1280
Email: guzzo.lindsay@epa.gov



RE: National Pollutant Discharge Elimination System (NPDES) Permit - Updated Information
for Leavenworth National Fish Hatchery

Mrs. Guzzo,

Leavenworth National Fish Hatchery (LNFH) has made significant changes to its operations since the 2005 submittal for a NPDES permit. These changes include but are not limited to a reduction in production from 1.625 million to 1.2 million spring Chinook salmon; the use of a low phosphorus feed during the critical months of March, April, July, August, and September with the exception of fry in the nursery building; and the construction and operation of a second pollution abatement pond. These changes in operations were initiated to improve the health of the hatchery's spring Chinook salmon and to improve the quality of water (lower phosphorus) discharged into Icicle Creek. Also, in 2011 through the endangered species consultation process with the U.S. Fish and Wildlife Service, LNFH further outlined and detailed all hatchery operation and maintenance activities. Since 2005, LNFH personnel have supplied this information to the Environmental Protection Agency (EPA) to update its current NPDES permit application. In recent discussions with EPA and WA Department of Ecology staff, it became clear that LNFH needed to resubmit a NPDES permit application to ensure that EPA receives all necessary information and to eliminate confusion.

Enclosed is an updated Form 1: General Information, Form 2B NPDES application for a permit to discharge wastewater from an aquatic animal production facility, a Continuation Sheet for Form 2B, and the March 2011 Biological Assessment for the Operation and Maintenance of Leavenworth National Fish Hatchery.

If further information is required please contact Malenna Cappellini the Leavenworth Fisheries Complex's Environmental Compliance Biologist at (509) 548-2928 or malenna_cappellini@fws.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Al Jensen", with a long horizontal flourish extending to the right.

Al Jensen,
Leavenworth NFH Manager

FORM 1 GENERAL	 U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">S</td> <td style="width:85%;"></td> <td style="width:5%;">T/A</td> <td style="width:5%;">C</td> </tr> <tr> <td>F</td> <td></td> <td></td> <td>D</td> </tr> <tr> <td>1</td> <td>2</td> <td>13</td> <td>14 15</td> </tr> </table>	S		T/A	C	F			D	1	2	13	14 15																																										
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1	2	13	14 15																																																					
LABEL ITEMS I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION <div style="text-align: center; padding-top: 20px;">PLEASE PLACE LABEL IN THIS SPACE</div>		GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.																																																						
II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms .																																																								
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(FORM 2C)</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td>D. Is this a proposed facility (<i>other than those described in A or B above</i>) which will result in a discharge to waters of the U.S.? (FORM 2D)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td>F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>G. 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CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST										B. SECOND									
C	7	0	9	2	1	(specify) Fish Hatchery					C	7	(specify)						
15	16	17	18	19						15	16	17	18	19					
C. THIRD										D. FOURTH									
C	7	(specify)								C	7	(specify)							
15	16	17	18	19						15	16	17	18	19					

VIII. OPERATOR INFORMATION

A. NAME										B. Is the name listed in Item VIII-A also the owner?											
C	8	U.S. Fish and Wildlife Service, Leavenworth Fisheries Complex										<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
15	16											55	56								

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)										D. PHONE (area code & no.)												
F = FEDERAL S = STATE P = PRIVATE M = PUBLIC (other than federal or state) O = OTHER (specify)										(specify) F												
										(509) 548-7641												
15	16											15	16	17	18	19	20	21	22	23	24	25

E. STREET OR P.O. BOX										
12790 Fish Hatchery Road										
26										55

F. CITY OR TOWN										G. STATE		H. ZIP CODE		IX. INDIAN LAND	
B Leavenworth										WA		98826		Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
15	16									40	41	42	43	44	45

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
C	9	N	WA-000190-2							C	9	P							
15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
C	9	U								C	9	(specify)							
15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24
C. RCRA (Hazardous Wastes)										E. OTHER (specify)									
C	9	R								C	9	(specify)							
15	16	17	18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	23	24

XI. MAP


Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Currently, LNFH targets a release of 1.2 million spring Chinook salmon pre-smolts into Icicle Creek (approx. rm 2.7) during late April. Also, LNFH supports the Yakama Nation's Coho Reintroduction Project by providing hatchery facilities for part of its expanded coho salmon production program. Approximately, 500,000 coho salmon are released into Icicle Creek. For further details on hatchery production see Attachment A (Biological Assessment for the Operation and Maintenance of Leavenworth National Fish Hatchery, March 2011).

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)										B. SIGNATURE										C. DATE SIGNED									
Allen Jensen, Hatchery manager																				10/24/11									

COMMENTS FOR OFFICIAL USE ONLY

C										
15	16									55

Form 1: X1. map (1) LNFH

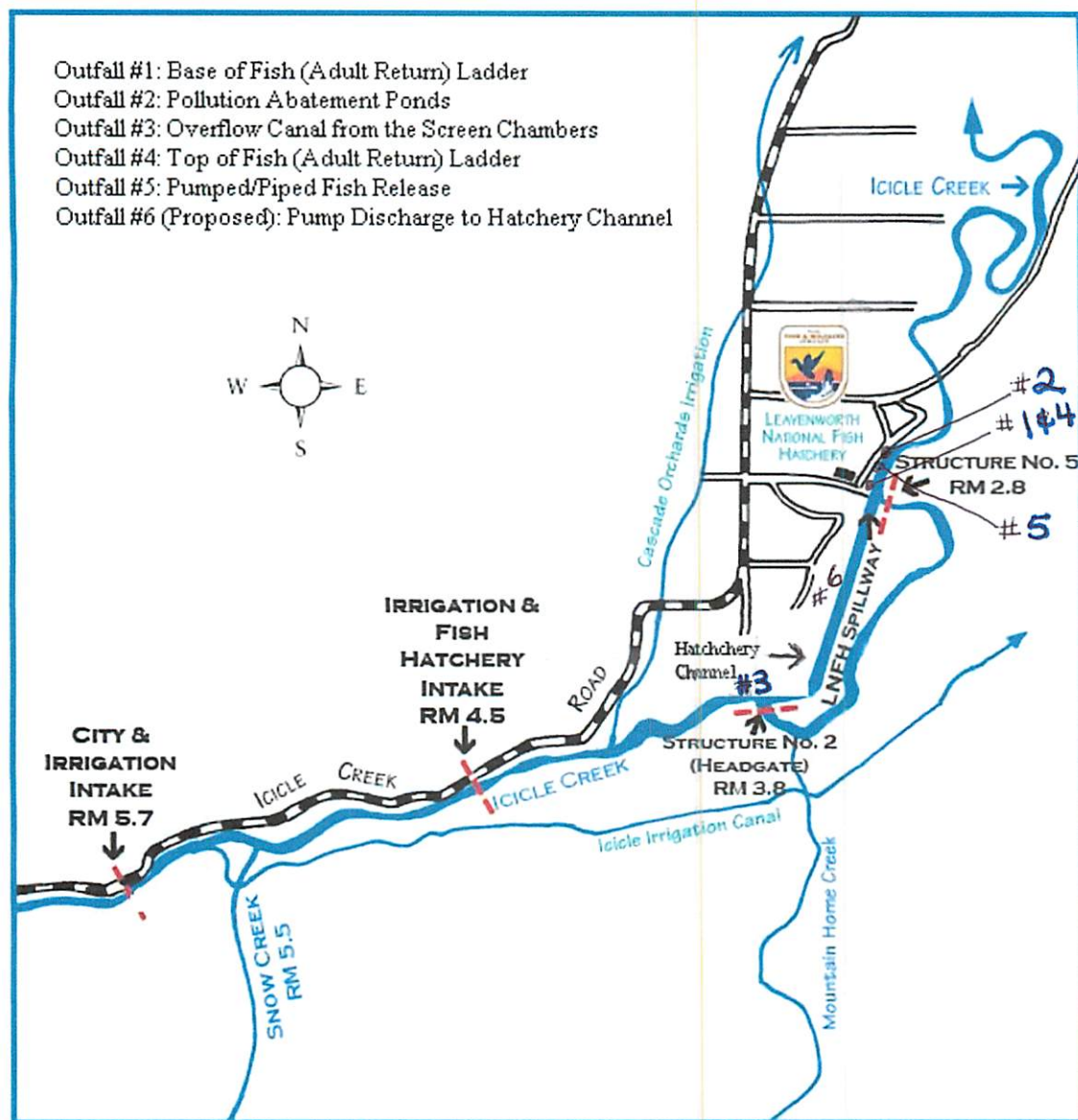


Figure 1. Leavenworth National Fish Hatchery and Vicinity

Form 1. x1. Map(2) L 14

Map of Leavenworth, WA

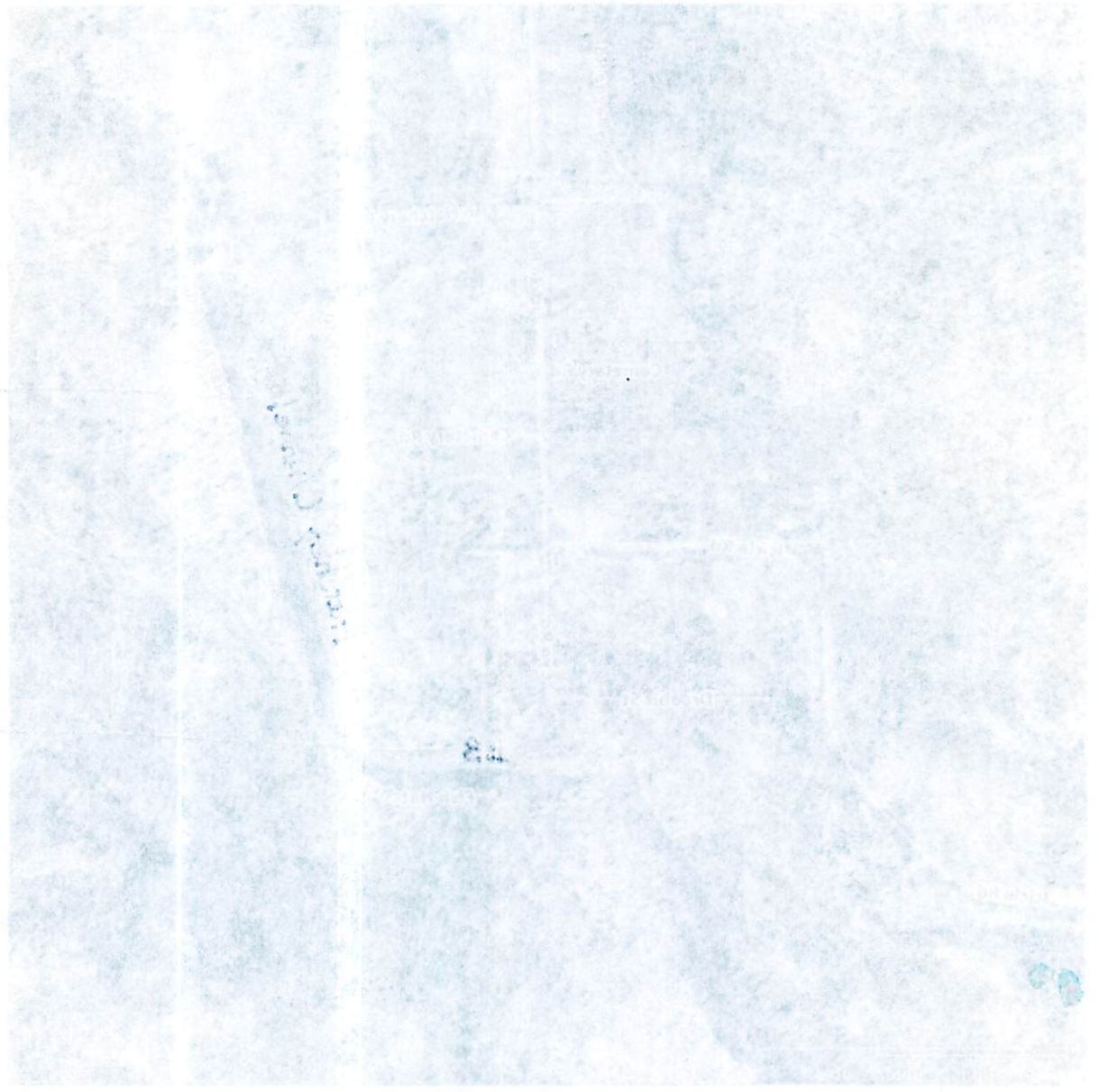
YAHOO!



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

YALCOO

Map of Loxley, WA



10-1-90
#2

YALCOO

10-1-90

10-1-90

EPA I.D. NUMBER (copy from Item 1 of Form 1)

FORM
2B
NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATIONS FOR PERMIT TO DISCHARGE WASTEWATER
CONCENTRATED ANIMAL FEEDING OPERATIONS AND AQUATIC ANIMAL PRODUCTION FACILITIES

I. GENERAL INFORMATION

Applying for: Individual Permit ☐

Coverage Under General Permit ☐

A. TYPE OF BUSINESS	B. CONTACT INFORMATION	C. FACILITY OPERATION STATUS
<input type="checkbox"/> 1. Concentrated Animal Feeding Operation (complete items B, C, D, and section II) <input checked="" type="checkbox"/> 2. Concentrated Aquatic Animal Production Facility (complete items B, C, and section III)	Owner/or Operator Name: <u>Al Jensen, Hatchery Manager</u> Telephone: (<u>509</u>) <u>548-2917</u> Address: <u>12790 Fish Hatchery Road</u> Facsimile: (<u>509</u>) <u>548-3401</u> City: <u>Leavenworth</u> State: <u>Wa</u> Zip Code: <u>98826</u>	<input checked="" type="checkbox"/> 1. Existing Facility <input type="checkbox"/> 2. Proposed Facility

D. FACILITY INFORMATION


Name: USFWS Leavenworth National Fish Hatchery Telephone: (509) 548-7641
 Address: 12790 Fish Hatchery Road Facsimile: (509) 548-3401
 City: Leavenworth State: WA Zip Code: 98826
 County: Chelan Latitude: S26 T24N R17E Longitude: _____

If contract operation: Name of Integrator: _____
 Address of Integrator: _____

II. CONCENTRATED ANIMAL FEEDING OPERATION CHARACTERISTICS

A. TYPE AND NUMBER OF ANIMALS			B. MANURE, LITTER, AND/OR WASTEWATER PRODUCTION AND USE
1. TYPE	2. ANIMALS		1. How much manure, litter, and wastewater is generated annually by the facility? _____ tons _____ gallons 2. If land applied how many acres of land under the control of the applicant are available for applying the CAFOs manure/litter/wastewater? _____ acres 3. How many tons of manure or litter, or gallons of wastewater produced by the CAFO will be transferred annually to other persons? _____ tons _____ gallons
	NO. IN OPEN CONFINEMENT	NO. HOUSED UNDER ROOF	
<input type="checkbox"/> Mature Dairy Cows			
<input type="checkbox"/> Dairy Heifers			
<input type="checkbox"/> Veal Calves			
<input type="checkbox"/> Cattle (not dairy or veal calves)			
<input type="checkbox"/> Swine (55 lbs. or over)			
<input type="checkbox"/> Swine (under 55 lbs.)			
<input type="checkbox"/> Horses			
<input type="checkbox"/> Sheep or Lambs			
<input type="checkbox"/> Turkeys			
<input type="checkbox"/> Chickens (Broilers)			
<input type="checkbox"/> Chickens (Layers)			
<input type="checkbox"/> Ducks			
<input type="checkbox"/> Other: Specify _____			
3. TOTAL ANIMALS			

C. <input type="checkbox"/> TOPOGRAPHIC MAP		
D. TYPE OF CONTAINMENT, STORAGE AND CAPACITY		
1. Type of Containment	Total Capacity (in gallons)	
<input type="checkbox"/> Lagoon		
<input type="checkbox"/> Holding Pond		
<input type="checkbox"/> Evaporation Pond		
<input type="checkbox"/> Other: Specify _____		
2. Report the total number of acres contributing drainage: _____ acres		
3. Type of Storage	Total Number of Days	Total Capacity (gallons/tons)
<input type="checkbox"/> Anaerobic Lagoon		
<input type="checkbox"/> Storage Lagoon		
<input type="checkbox"/> Evaporation Pond		
<input type="checkbox"/> Aboveground Storage Tanks		
<input type="checkbox"/> Belowground Storage Tanks		
<input type="checkbox"/> Roofed Storage Shed		
<input type="checkbox"/> Concrete Pad		
<input type="checkbox"/> Impervious Soil Pad		
<input type="checkbox"/> Other: Specify _____		
E. NUTRIENT MANAGEMENT PLAN		
<p>Note: Effective February 27, 2009, a permit application is not complete until a nutrient management plan is submitted to the Permitting Authority.</p> <p>1. Please indicate whether a nutrient management plan has been included with this permit application. <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. If no, please explain:</p> <p>3. Is a nutrient management plan being implemented for the facility? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>4. The date of the last review or revision of the nutrient management plan. Date: _____</p> <p>5. If not land applying, describe alternative use(s) of manure, litter, and/or wastewater:</p>		
F. LAND APPLICATION BEST MANAGEMENT PRACTICES		
<p>Please check any of the following best management practices that are being implemented at the facility to control runoff and protect water quality:</p> <p><input type="checkbox"/> Buffers <input type="checkbox"/> Setbacks <input type="checkbox"/> Conservation tillage <input type="checkbox"/> Constructed wetlands <input type="checkbox"/> Infiltration field <input type="checkbox"/> Grass filter <input type="checkbox"/> Terrace</p>		

III. CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY CHARACTERISTICS						
A. For each outfall give the maximum daily flow, maximum 30-day flow, and the long-term average flow.				B. Indicate the total number of ponds, raceways, and similar structures in your facility.		
1. Outfall No.	2. Flow (gallons per day)			1. Ponds	2. Raceways	3. Other
	a. Maximum Daily	b. Maximum 30 Day	c. Long Term Average	C. Provide the name of the receiving water and the source of water used by your facility.		
				1. Receiving Water		2. Water Source
D. List the species of fish or aquatic animals held and fed at your facility. For each species, give the total weight produced by your facility per year in pounds of harvestable weight, and also give the maximum weight present at any one time.						
1. Cold Water Species				2. Warm Water Species		
a. Species		b. Harvestable Weight (pounds)		a. Species		b. Harvestable Weight (pounds)
		(1) Total Yearly	(2) Maximum			(1) Total Yearly (2) Maximum
Spring Chinook salmon		75,000	80,000	N/A		
Coho salmon		10,000	33,000			
E. Report the total pounds of food during the calendar month of maximum feeding.				1. Month April		2. Pounds of Food 14,000
IV. CERTIFICATION						
<i>I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.</i>						
A. Name and Official Title (print or type) Al Jensen, LNFH Manager				B. Telephone (509) 548-2917		
C. Signature 				D. Date Signed 10/24/11		

CONTINUATION SHEET from EPA FORM 3510-2B (Rev. 11-08)

A.

1. OUTFALL No. (see operational description below)	2. FLOW (gallons per day)		c. Long Term Average
	a. Maximum Daily	b. Maximum 30 Day	
1	32,800,000	984,000,000	26,000,000
2	8,640,000	259,200,000	288,000
3	0	0	0
4	5,760,000	172,800,000	5,040,000
5	72,000	1,008,000	72,000
6 – Proposed	unknown	unknown	unknown

Outfall #1: Base of Fish (Adult Return) Ladder

The majority of river and well water used for hatchery operations returns to Icicle Creek from Outfall #1 near the base of the adult return ladder (~ rm 2.8) except during rearing unit cleaning and maintenance activities when all water is routed through the pollution abatement ponds. All river water and groundwater used at the hatchery, minus any leakage and evaporation, is returned to Icicle Creek (non-consumptive use).

Outfall #2: Pollution Abatement Ponds

As of 2011, Leavenworth NFH has a second functional pollution abatement pond. When online, both pollution abatement ponds discharge into Icicle Creek at Outfall #2 (~rm 2.7). Outfall #2 is used during rearing unit cleaning and maintenance activities.

Outfall #3: Overflow Canal from the Screen Chambers

Currently, Outfall #3 (~rm 3.8) is not used as a discharge point by the hatchery. However, the hatchery wishes to retain this discharge point for potential future use. In the past, Outfall #3 was operated intermittently as a fish return bypass for the hatchery's water delivery system.

Outfall #4: Top of Fish (Adult Return) Ladder

In the past, Outfall #4 was used for 1 to 2 weeks a year in late April to release hatchery pre-smolts into Icicle Creek (~ rm 2.8). Currently, pre-smolts are pumped from rearing units through an above ground pipeline into Icicle Creek at approximately rm 2.75 (Outfall #5). However, the hatchery wishes to retain Outfall #4 for emergency releases and potential future use. When in operation, discharge from Outfall #1 is reduced by the amount released at Outfall #4.

Outfall #5: Pumped/Piped Fish Release

Outfall #5 is currently used for 1 to 2 weeks a year in late April to release hatchery pre-smolts which are pumped from rearing units through an above ground pipeline into Icicle Creek (~ rm 2.75). When in operation, discharge from Outfall #1 is reduced by the amount released at Outfall #5.

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Outfall #6 (Proposed): Pump Discharge to Hatchery Channel

Leavenworth NFH is proposing to pump a portion of discharge water destined for Outfall #1 upstream to a new discharge point (Outfall #6) in the Hatchery Channel section (rm 2.8 to 3.8) of Icicle Creek. The details of where, when, and how much discharge will be released at proposed Outfall #6 are currently being determined by Leavenworth NFH. The hatchery will provide this information to EPA within the next 6 months.

B. Rearing and holding units currently in operation at Leavenworth NFH include:

- 2, 15' x 150' adult holding raceways
- 45, 8' x 80' raceways
- 14, 10' x 100' covered raceways
- 122 fiberglass tanks
- 16 of 40 small Foster-Lucas rearing units
- 2 of 22 large Foster-Lucas rearing units

C.1. Icicle Creek is the receiving water body.

C.2. Leavenworth NFH's water sources include Icicle Creek, Snow/Nada Lake Basin, and 7 wells. The hatchery's water rights include:

CERTIFICATE #	PRIORITY DATE	SOURCE	AMOUNT
1824	03/26/1942	Icicle Creek	42 cfs (18,851 gpm)
1825	03/26/1942	Snow & Nada Lakes	16,000 acre feet
016378	08/01/1939	Groundwater (1 Wells)	1.56 cfs (700 gpm)
016379	06/01/1940	Groundwater (1 Wells)	2.01 cfs (900 gpm)
3103-A	10/16/1957	Groundwater (1 Wells)	2.67 cfs (1200 gpm)
G4-27115C	10/20/1980	Groundwater (4 Wells)	8.69 cfs (3900 gpm)